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#3/I.D.S.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Susan M. Freier et al.

Serial No.: Not yet assigned Group No.: Not yet assigned

Filed: herewith

For: **Antisense Modulation of PCTAIRE protein kinase 1 Expression**

J1046 U.S. PRO
10/01/621
12/07/01



BOX SEQUENCE

Assistant Commissioner for Patents
Washington DC 20231

INFORMATION DISCLOSURE STATEMENT

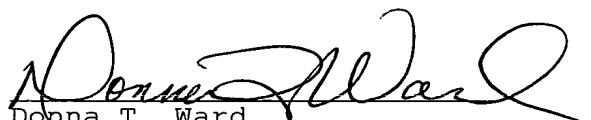
Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).

In accordance with §1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above identified application, within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, or before the mailing date of a first Office Action on the merits of the above identified application, no additional fee is required.

Copies of each of the references listed on the attached Form PTO-1449 are enclosed.

Date: December 6, 2001

Respectfully submitted,


Donna T. Ward
Registration No. 48,271

ISIS PHARMACEUTICALS, INC.
Carlsbad Research Center
2292 Faraday Avenue
Carlsbad, CA 92008

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Susan M. Freier and Mark P. Roach

#3/I.D.S

For: Antisense Modulation of PCTAIRE protein kinase 1 Expression

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Washington DC 20231

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10/01/96 12/07/01


PATENT APPLICATION TRANSMITTAL LETTER

Transmitted herewith for filing, please find the following:

- The specification of the above-referenced patent application;
- An executed Declaration or Oath and Power of Attorney;
- An Assignment of the invention to **Isis Pharmaceuticals Inc.** with recordation cover sheet (PTO Form PTO-1595) and \$40.00 cover fee;
- Statement to Support Filing and Submission of DNA/Amino Acid Sequences in Accordance with 37 CFR §§ 1.821 through 1.825;
- Sequence listing in computer readable form in accordance with 37 C.F.R. § 1.821(e);
- An Information Disclosure Statement with references; and
- Applicant claims small entity status pursuant to 37 CFR § 1.27.

The filing fee has been calculated as shown below:

For:	No. Filed	No. Extra	Rate	Fee
BASE FEE				\$370.00
Total Claims	20 - 20 =	0	X \$9=	\$0
Indep. Claims	2 - 3 =	0	x\$40=	\$0
			TOTAL	\$ 370.00

The Commissioner is hereby authorized to charge the following fees to Deposit Account No. 500252:

- the amount of \$410.00 for the above listed fees;
- payment of the following fees associated with this communication or credit any overpayment;
- any additional filing fees required under 37 CFR 1.16 including fees for presentation of extra claims; and
- any additional patent application processing fees under 37 CFR 1.17 and under 37 CFR 1.20 (d).

Triplicate copies of this transmittal are enclosed.

Date: December 6, 2001


Donna T. Ward
Registration No. 48,271
Isis Pharmaceuticals, Inc.

Please address all correspondence to:

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Form PTO-1449 Modified		Docket No. RTS-0350	Serial No. not yet assigned
List of Patents and Publications Cited by Application (Use several sheets if necessary)		Applicant Susan M. Freier et al.	
U.S. Department of Commerce Patent and Trademark Office		Filing Date herewith	Group 11046 U.S. PRO 10/017641 12/07/01
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	AA	Hirose et al., Identification of tudor repeat associator with PCTAIRE 2 (Trap). A novel protein that interacts with the N-terminal domain of PCTAIRE 2 in rat brain, <i>Eur. J. Biochem.</i> , 2000, 267:2113-2121	
	AB	Meyerson et al., A family of human cdc2-related protein kinases, <i>The Embo Journal</i> , 1992, 11:2909-2917	
	AC	Morgan, Principles of CDK regulation, <i>Nature</i> , 1995, 374:131-134	
	AD	Okuda et al., PCTAIRE-1 and PCTAIRE-3, two members of a novel cdc2/CDC28-related protein kinase gene family, <i>Oncogene</i> , 1992, 7:2249-2258	
	AE	Okuda et al., Cloning of genomic loci and chromosomal localization of the human PCTAIRE-1 and -3 protein kinase genes, <i>Genomics</i> , 1994, 21:217-221	
	AF	Sladeczek et al., The Cdk-like protein PCTAIRE-1 from mouse brain associates with p11 and 14-3-3 proteins, <i>Mol. Gen. Genet.</i> , 1997, 254:571-577	
EXAMINER		DATE CONSIDERED	